

CLAIMS

1. A pneumatic tire sequentially including on an outside of a crown part of a carcass extending in a toroidal fashion a belt and a tread section, which is provided with grooves, and having different negative ratios of the tread section on each of two sides of a tire equatorial plane, wherein

a belt width Ba from a belt end on the higher negative ratio side to the tire equatorial plane and a belt width Bb from a belt end on the lower negative ratio side to the tire equatorial plane satisfy a relationship of:

$$Ba > Bb.$$

2. The pneumatic tire according to claim 1, wherein the belt width Ba and the belt width Bb satisfy a relationship of:

$$1.04 \leq Ba/Bb \leq 1.20.$$

3. The pneumatic tire according to claim 1, wherein a difference between the negative ratios on each side of the tire equatorial plane is within a range of 3% to 20%.

4. The pneumatic tire according to claim 1, wherein if a radius of curvature of an outer contour of a shoulder section adjacent to the tread section on the higher negative ratio side is Ra, and on the lower negative ratio side Rb, Ra and Rb satisfy a relationship of:

$$Ra > Rb.$$

5. The pneumatic tire according to claim 4, wherein Ra and Rb satisfy a relationship of:

$$1.2 < Ra/Rb < 2.5.$$

6. The pneumatic tire according to claim 1, wherein the tread section includes a plurality of width-direction grooves extending in a tire width direction, and

if a circumferential average pitch of the width-direction grooves on the higher negative ratio side is Pa and on the lower negative ratio side Pb, Pa and Pb satisfy a relationship of:

$$Pa > Pb.$$

7. The pneumatic tire according to claim 6, wherein Pa and Pb satisfy a relationship of:

$$1/2 \leq Pb/Pa \leq 2/3.$$

8. The pneumatic tire according to claim 1, wherein

a reinforcing layer is provided on a shoulder section on the higher negative ratio side.

9. The pneumatic tire according to claim 1, wherein

a reinforcing layer is provided on a shoulder section on the lower negative ratio side.

10. The pneumatic tire according to claim 1, wherein

reinforcing layers are provided on shoulder sections on both the higher negative ratio side and the lower negative ratio side, and

a tensile rigidity of a cord of the reinforcing layer provided on the lower negative ratio side is higher than a tensile rigidity of a cord of the reinforcing layer provided on the higher negative ratio side.

11. The pneumatic tire according to claim 1, wherein

a tread rubber that constitutes the tread section is formed of different rubber materials on the higher negative ratio side to the lower negative ratio side,

the rubber material on the higher negative ratio side is higher in modulus of rigidity than the rubber material on the lower negative ratio side, and

the rubber material on the lower negative ratio side is higher in $\tan\delta$ than the rubber material on the higher negative ratio side.

12. The pneumatic tire according to claim 1, wherein

if a width from the tire equatorial plane to an edge of the tread on the higher negative ratio side is W_a and on the lower negative ratio side W_b , W_a and W_b satisfy a relationship of:

$$W_a < W_b.$$

13. The pneumatic tire according to claim 1, wherein

a skid base gauge that is a distance from a bottom of the grooves to an outermost layer of the belt on the higher negative ratio side is H_a and on the lower negative ratio side H_b , H_a and H_b satisfy a relationship of:

$$H_a > H_b.$$